

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. A process for producing an epoxide comprising reacting an olefin, hydrogen and oxygen in the presence of a catalyst mixture comprising a palladium-containing titanium zeolite and a palladium-free titanium zeolite.
2. The process of claim 1 wherein the palladium-containing titanium zeolite comprises palladium and a titanium silicalite.
3. The process of claim 2 wherein the titanium silicalite is TS-1.
4. The process of claim 1 wherein the palladium-containing titanium zeolite comprises palladium, a titanium zeolite, and a noble metal selected from the group consisting of platinum, gold, silver, iridium, rhenium, ruthenium, osmium, and mixtures thereof.
5. The process of claim 4 wherein the noble metal is selected from the group consisting of platinum, gold, and mixtures thereof.
6. The process of claim 1 wherein the palladium-containing titanium zeolite comprises from about 0.01 to about 10 weight percent palladium.
7. The process of claim 1 wherein the palladium-free titanium zeolite is a titanium silicalite.
8. The process of claim 1 wherein the palladium-free titanium zeolite is TS-1.
9. The process of claim 1 wherein the olefin is a C<sub>2</sub>-C<sub>6</sub> olefin.
10. The process of claim 1 wherein the olefin is propylene.
11. The process of claim 1 wherein reaction of olefin, hydrogen and oxygen is performed in a solvent.
12. The process of claim 11 wherein the solvent is selected from the group consisting of water, C<sub>1</sub>-C<sub>4</sub> alcohols, supercritical CO<sub>2</sub>, and mixtures thereof.
13. The process of claim 11 wherein the solvent contains a buffer.

**14.** A process comprising reacting propylene, hydrogen and oxygen in a solvent in the presence of a catalyst mixture comprising a palladium-containing titanium silicalite and palladium-free TS-1, wherein the palladium-containing titanium silicalite comprises palladium and a titanium silicalite.

**15.** The process of claim **14** wherein the titanium silicalite is TS-1.

**16.** The process of claim **14** wherein the palladium-containing titanium zeolite further comprises a noble metal selected from the group consisting of platinum, gold, silver, iridium, rhenium, ruthenium, osmium, and mixtures thereof.

**17.** The process of claim **14** wherein the solvent is selected from the group consisting of water, C<sub>1</sub>-C<sub>4</sub> alcohols, supercritical CO<sub>2</sub>, and mixtures thereof.

**18.** The process of claim **14** wherein the solvent contains a buffer.

**19.** (cancelled)

**20.** (cancelled)